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DECLARATION FOR	UTILITY OR	Attorney Docket Num	per	BP2919		···		
DESIGN		First Named Inventor	First Named Inventor Stephen Palm					
PATENT APPLIC			COMPLETE IF KNOWN					
(37 CFR 1.6	53)	Application Number						
Deciaration L. Sur	claration omitted after initial	Filing Date						
with Initial OR Filin	OR Filing (aurahama	Group Art Unit						
rilliu '	uired)	Examiner Name						
	As a below named inventor, I hereby declare that:							
My residence, mailing	address, and citiz	zenship are as stated	d belo	ow next to my	name.			
I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: LOW POWER PROTOCOL FOR WIRELESS TERMINAL PEER-TO-PEER COMMUNICATIONS								
the specification of which (Title of the Invention) is attached hereto								
OR was filed on (MM/DD/YY	YY)	as United State	es App	lication Number or	PCT International			
Application Number	and	was amended on (MM/DI)/YYY	n	(if app	olicable).		
I hereby state that I have reviewe as amended by any amendment s			itified s	pecification, inclu	ding the claims,			
I acknowledge the duty to disclos continuation-in-part applications, and the national or PCT internation	material information wi	hich became available bet	ween t		_			
I hereby claim foreign priority ber inventor's certificate, or 365(a) of United States of America, listed I patent or inventor's certificate, or which priority is claimed.	f any PCT international below and have also id	I application which designated the signate of the signature of the signatu	ated at in the b	least one country box, any foreign a	other than the pplication for			
Prior Foreign Applications Numbers(s)	Country	Foreign Filing Date (MM/DD/YYYY)		Priority Not Claimed	Certified Copy YES	Attached? NO		
Additional fore	ign application number	s are listed on a suppleme	ntal pri	ority data sheet P	TO/SB/02B attache	d hereto:		
I hereby claim the benefit under 3	5 U.S.C. 119 (e), 120, c	or 365 (c) of any U.S. or PC	T appl	ication(s) listed be	low.			
Application Numbers(s)	Filing Dat	te (MM/DD/YYYY)		Additional	application			
60/466,377		4/29/2003		numbers ar supplemen	re listed on a tal priority data she 2B attached hereto.	eet		

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DECLARATION - Utility or Design Patent Application

Direct all correspondence to: X Customer Num or Bar Code La		34	,399		OR []	Correspondence address below
Name Bruce E. Garlick		_				
Address P.O. Box 160727						
Address				•		
City Austin		4			TX State	78716-0727 ZIP
Country USA	SA Telephone 512-264-8816 FAX 512-264-3735					FAX 512-264-3735
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.c. 1001 and that such willful false statements may jeorpardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVENTOR:		A	petition	n ha	s been filed fo	r this unsigned inventor
Given Name (first and middle [if any]) Stephen or Surname Palm						Palm
Inventor's						
Signature All	تح=	≥		T	USA	TICA
Residence: City Irvinc	s	tate	CA	Co	ountry	Citizenship USA
Mailing Address 6 Santa Luzia Aisle						
Mailing Address						
City Irvine s	tate	C.	A		ZIP 92606	Country USA
NAME OF SECOND INVENTOR:		A	petitio	n ha	s been filed fo	r this unsigned inventor
Given Name (first and middle [if any]) Edward H.				•	mily Name Surname	Frank
Inventor's Signature						Date
Residence: City Atherton	s	tate	СА	Co	ountry USA	Citizenship ^{USA}
Mailing Address 83 Tuscaloosa Avc.						
Mailing Address						
City Atherton s	State		CA		ZIP 94027	Country USA
Additional inventors are being named on the attached hereto.	e	_ suppl	emental	Addi	tional Inventor(s) sh	eets(s) PTO/SB/02A



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Name Bruce E. Garlick						
Address P.O. Box 160727						
Address				_		
City Austin				State	TX	78716-0727 ZIP
Country USA		Telephone 51	2-2	64-8816		FAX 512-264-3735
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.c. 1001 and that such willful false statements may jeorpardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INVENTOR:		A petition	ha	ıs been	filed fo	r this unsigned inventor
Given Name (first and middle [if any]) Stephen or Surname Palm						Palm
Inventor's Signature						Date
Residence: City Irvine	Si	tate CA	Co	ountry	USA	Citizenship USA
Mailing Address 6 Santa Luzia Aisle						
Mailing Address						
City Irvine Sta	ate	CA		ZIP ⁹²⁶	06	Country USA
NAME OF SECOND INVENTOR:		A petition	ha	is been	filed fo	r this unsigned inventor
Given Name (first and middle [if any])/ Edward H.				mily Na Surnan		Frank
Inventor's Signature						Date 2/2/04
Residence: City Atherton	Si	tate CA	Со	untry	USA	Citizenship USA
Mailing Address 83 Tuscaloosa Ave.						
Mailing Address						
City Atherton Sta	ate	CA		ZIP	94027	Country USA
Additional inventors are being named on the attached hereto.		supplemental A	ddit	ional Inve	ntor(s) sh	eets(s) PTO/SB/02A

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Under the Paparwork Reduction Act of 1995, no perso	ons are requ	tired to respond	lo a c	collection of I	normation	nviess it qi	splays a v	alid OMB control number.
NAME OF THIRD INVENTOR:		A petition				this un	signed	inventor
Given Name (first and middle [if any]) Brucc E.				mily Nar Surnam	12.4	wards		
Inventor's Signature Brun & Es	hu	rde-				Date	1/29	8/2004
Residence: City Belmont		State MA	1	Country	USA	Citizen	ship	USA
Mailing Address 41 Clairemont Road				· · · · · · · · · · · · · · · · · · ·	-			
Mailing Address								
City Belmont	State	MA		ZIP	02478	Çou	intry	USA
NAME OF FOURTH INVENTOR:] A petitio	n h	as been	filed fo	r this un	signed	l inventor
Given Name (first and middle [if any]) Jason A.				mily Na	71	achewsky	,	
Inventor's Signature			•			Date		
Residence: City Mcnlo Park		State CA		Country	USA	Citizen	ship	USA
Mailing Address 127 Hillside Avenue			······································					
Mailing Address								
City Menlo Park	State	CA	_	ZIP	94025	Cou	ntry	USA
NAME OF FIFTH INVENTOR:] A petitio	n h	as been	filed fo	r this ur	signed	linventor
Given Name (first and middle [if any])			4	amily Na Surnam				
Inventor's Signature				-		Date		
Residence: City		State		Country		Cltizen	ship	
Mailing Address								
Mailing Address								
City	State			ZIP		Cou	£ntry	

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NAME OF THIRD INVENTOR:		A petit				r this unsigned inventor
Given Name (first and middle [if any]) Bruce E.			,	mily Na Surnam	Ľd	lwards
Inventor's Signature						Date
Residence: City Belmont		State 1	MA	Country	USA	Citizenship USA
Mailing Address 41 Clairemont Road						
Mailing Address						
City Belmont s	State	MA		ZIP	02478	Country USA
NAME OF FOURTH INVENTOR:	TE] A petit				r this unsigned inventor
Given Name (first and middle [if any]) Jason A.				amily Na r Surnam		achewsky
Inventor's Signature						Date 3/2/0+
Residence: City Menlo Park		State (CA	Country	USA	Citizenship USA
Mailing Address 127 Hillside Avenue						
Mailing Address						
City Menlo Park	State	CA		ZIP	94025	Country USA
NAME OF FIFTH INVENTOR:	TE] A peti	tion h	as been	filed fo	r this unsigned inventor
Given Name (first and middle [if any])				amily Na r Surnan		,
Inventor's Signature						Date
Residence: City		State		Country		Citizenship
Mailing Address						
Mailing Address						
City	State			ZIP		Country



Certificate Under 37 C.F.R. § 3.73(b)

Applicants:	Stephen Palm	Edward H. Frank	Bruce E. Edwards	Jason A. Trachewsky			
Application No.:	Unknown	Filing Date: 2	<u>-4</u> ,	2004			
Entitled:	Low Power Pro	TOCOL FOR WIRELESS T	ERMINAL PEER-TO-PE	ER COMMUNICATIONS			
Broadcom Corp	oration signee)	a, California Co	Orporation poration, partnership, university, government	rument agency,etc.)			
states that it is:							
1. [X] the assignment	gnee of the entire ri	ght, title, and interest, or					
2. [] an assignee of an undivided part interest							
in the patent app	lication/patent ident	tified above by virtue of ei	ther:				
	d in the Patent and			ed above. The assignment wa r for which a copy thereof is			
	of title from the invented on	ventor(s) of the patent app	lication/patent identifie	ed above to the current assigne			
1. From	The document wa	To: To:, s recorded in the Patent ar, Frame, or f	nd Trademark Office at	f is attached.			
2. From		To: To:, s recorded in the Patent ar, Frame, or f					
3. From	The document wa	To: To:, or f					
· [] Ado	ditional documents i	in the chain of title are list	ed on a supplemental sl	heet.			
[NOTE docume	E: A separate copy (ent) must be submit	documents in the chain of (i.e., the original assignme ted to Assignment Division and in the records of the PT	nt document or a true on in accordance with 37	7 CFR Part 3, if the			
The undersigned	l (whose title is supp	plied below) is empowered	i to act on behalf of the	assignee.			
Date:		2/4/3	1				
Name:	Dı Manager, In	ee Henderson tellectual Property Port	folio				
Title:							
Signature:	The A	nan					
	/						

)

ASSIGNMENT

WHEREAS, the undersigned inventors, hereinafter called the "Assignors", have invented a new and useful invention entitled:

· .

LOW POWER PROTOCOL FOR WIRELESS TERMINAL PEER-TO-PEER COMMUNICATIONS

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, Broadcom Corporation, a USA company having a principal office and place of business at, 16215 Alton Parkway Irvine California 92618-7013 hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional

papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

, 4°,

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

		MHI	2/2/0
Stephen Palm	date	Edward H. Frank	date
		() sty	alrloy
Bruce E. Edwards	date	Jason A. Trachewsky	date
	date		date

papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

Stephen Palm	date	Edward H. Frank	date
Bruce E. Edwards	- 1/28/2004 <u> </u>	Jason A. Trachewsky	date
	date		વૈશ્વ

Attorney Docket N . BP2919

ASSIGNMENT for Patent Application

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s) Stephen Palm, Edward H. Frank, Bruce Edwards, and Jason Trachewsky, the undersigned inventor(s) hereby sell(s) and assign(s) to Broadcom Corporation, a California corporation having a principal place of business at 16215 Alton Parkway, Irvine, California 92618-7013 (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

- (a) in the invention(s) known as LOW POWER PROTOCOL FOR WIRELESS TERMINAL PEER-TO-PEER COMMUNICATIONS (BP2919) for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 3 frs., 2004 in any and all applications thereon, in any and all Letters Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof.

Attorncy Docket No. BP2919

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventor(s) hereby grant(s): Bruce E. Garlick, Registration No. 36,520, James A. Harrison, Registration No. 40,401, Timothy W. Markison, Registration No. 33,534, Shayne X. Short, Registration No. 45,105, William W. Kidd 31,772, and Robert McLauchlan 44,924; all of Garlick, Harrison & Markison, LLP, P.O. Box 160727, Austin, Texas 78716-0727, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Stephen Palm:	Date: S Feb 2003
Edward H. Frank:	Date:
Bruce Edwards:	Date:
Jason Trachewsky:	Date:

POWER OF ATTORNEY FROM ASSIGNEE

The Assignee hereby appoints the U.S. attorneys associated with Garlick, Harrison & Markison, LLP to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Bruce E. Garlick, Registration No. 36,520, James A. Harrison, Registration No. 40,401, Timothy W. Markison, Registration No. 33,534, and Shayne X. Short, Registration No. 45,105. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

Garlick, Harrison & Markison, LLP P.O. Box 160727 Austin, Texas 78716-0727.

Direct phone calls to Bruce Garlick at (512) 264-8816.

FOR:	Broadcom Corporation
SIGNATURE:	1 sulli
BY:	Dee Henderson Manager, Intellectual Property Portfolio
TITLE:	
DATE:	2/4/01